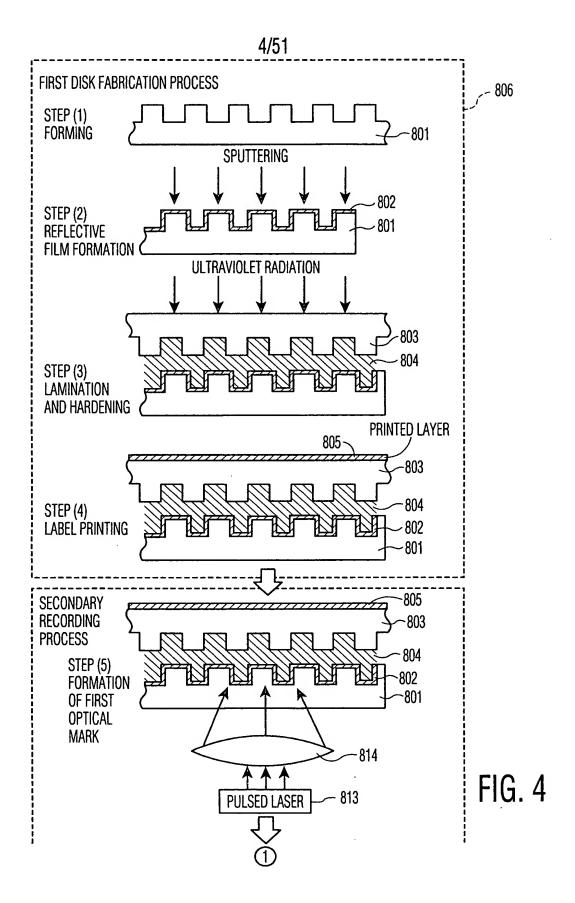
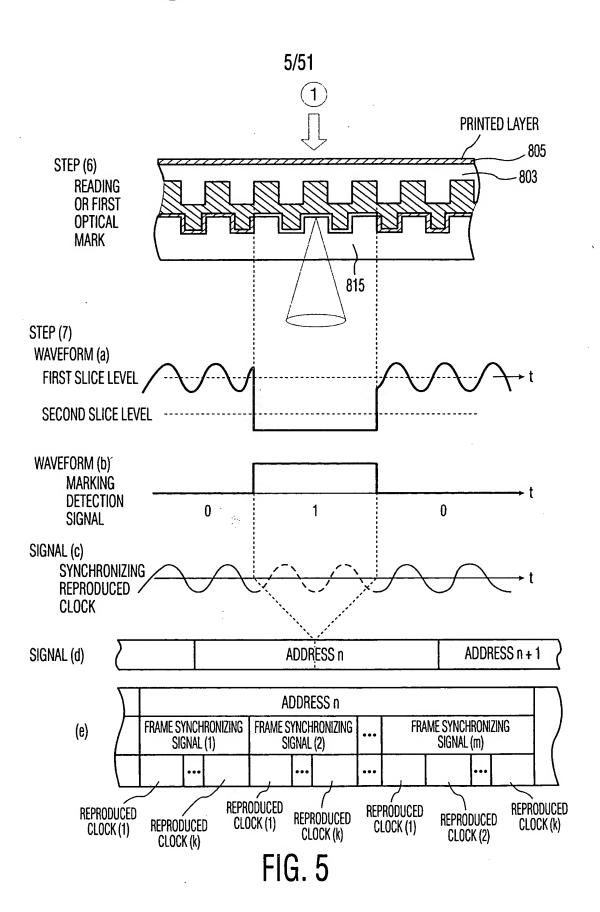
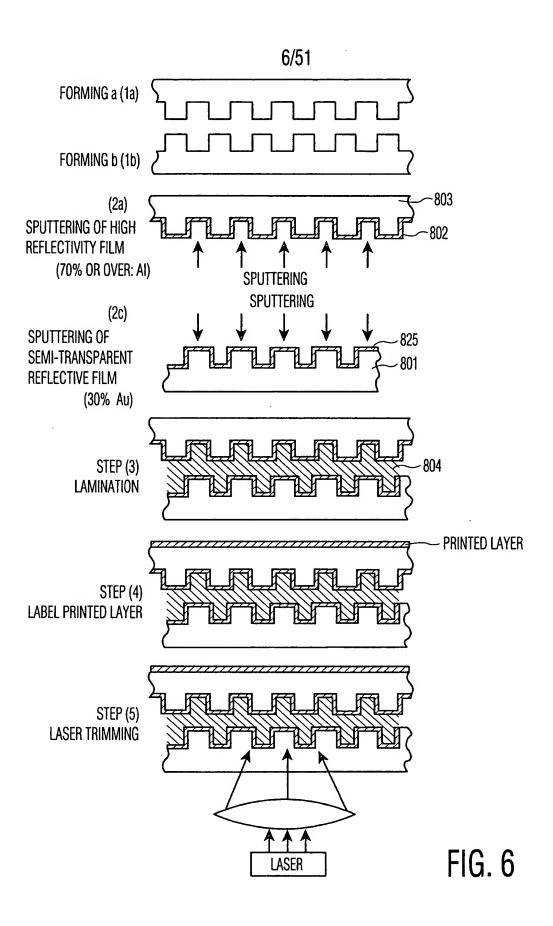


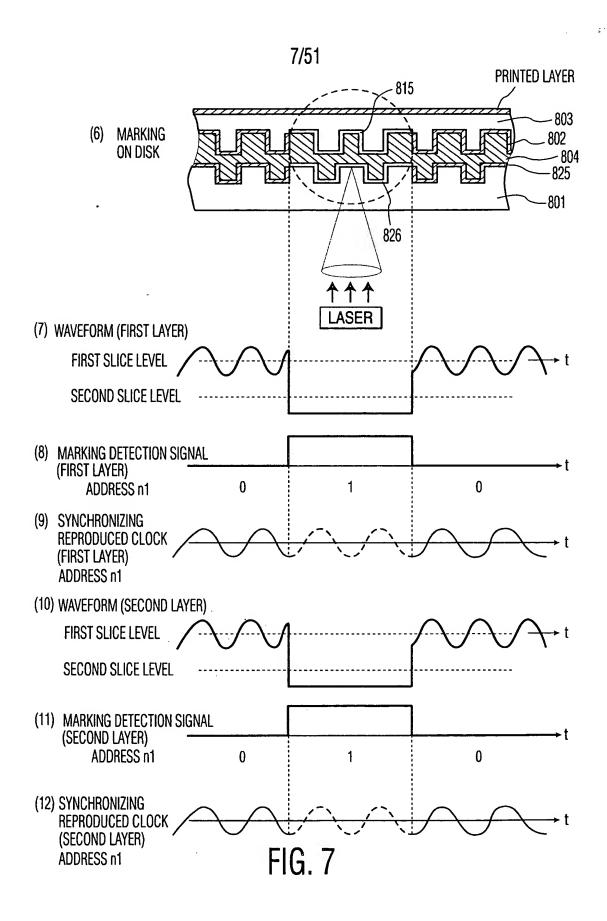
FIG. 3

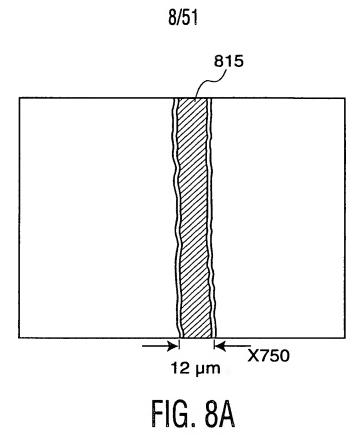




· \







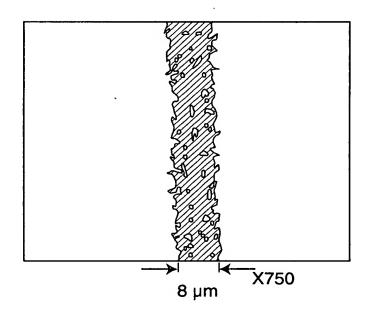
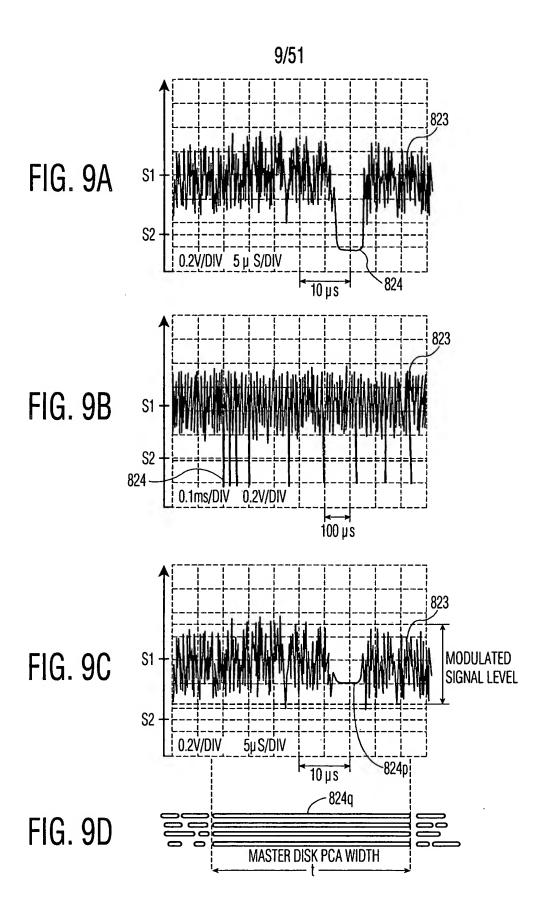
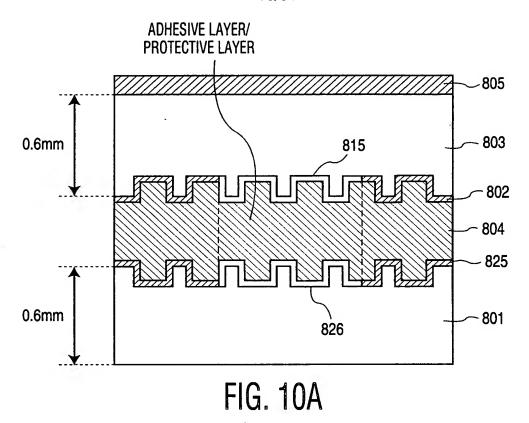
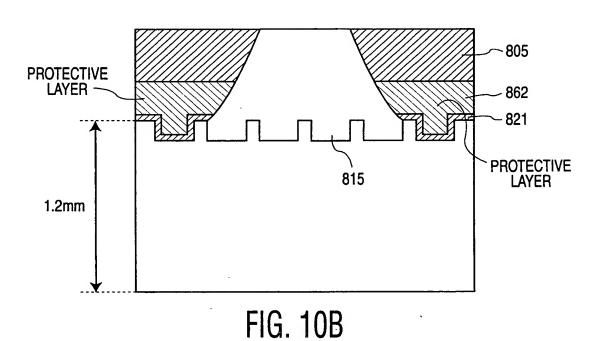


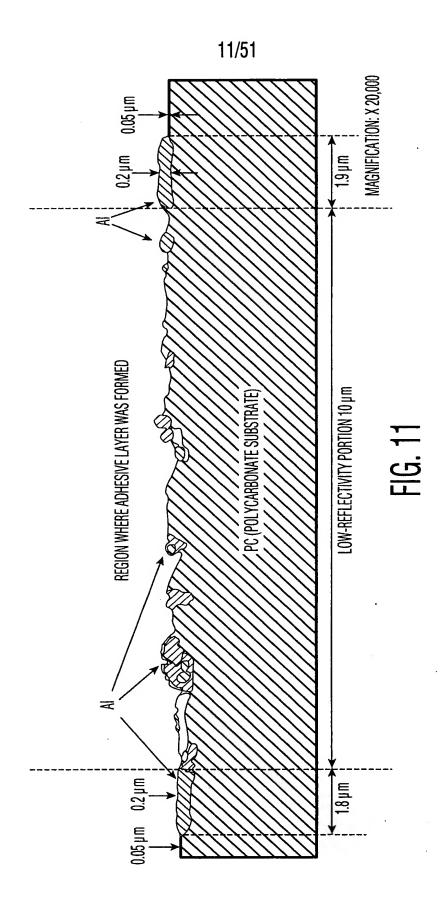
FIG. 8B

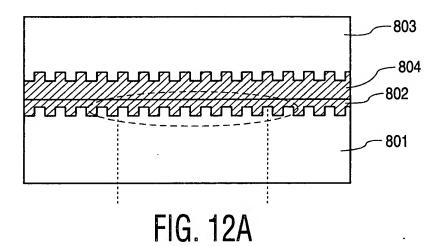


10/51









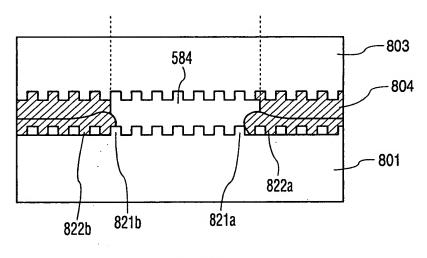
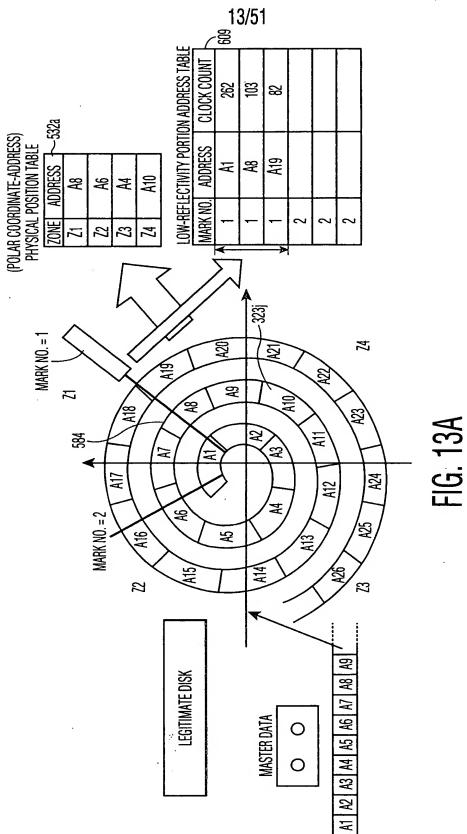
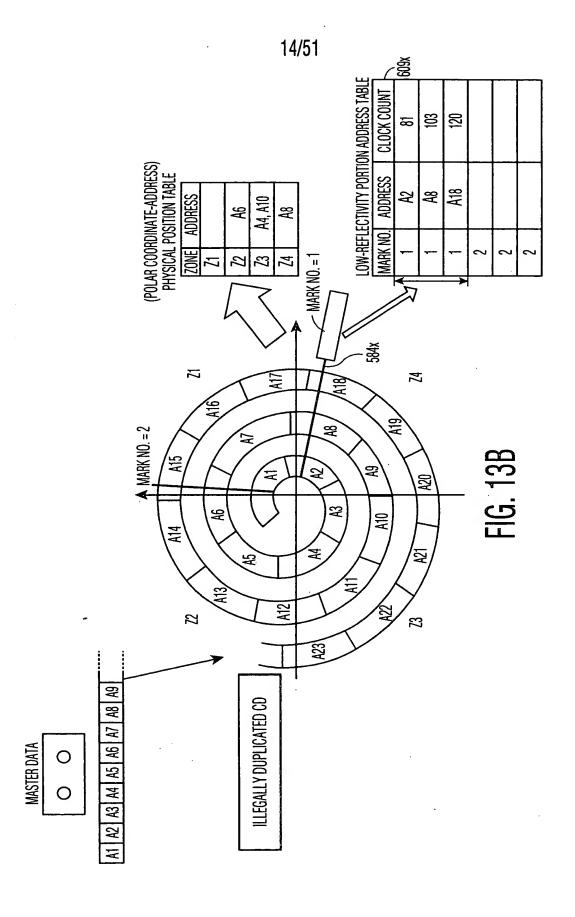


FIG. 12B





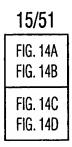
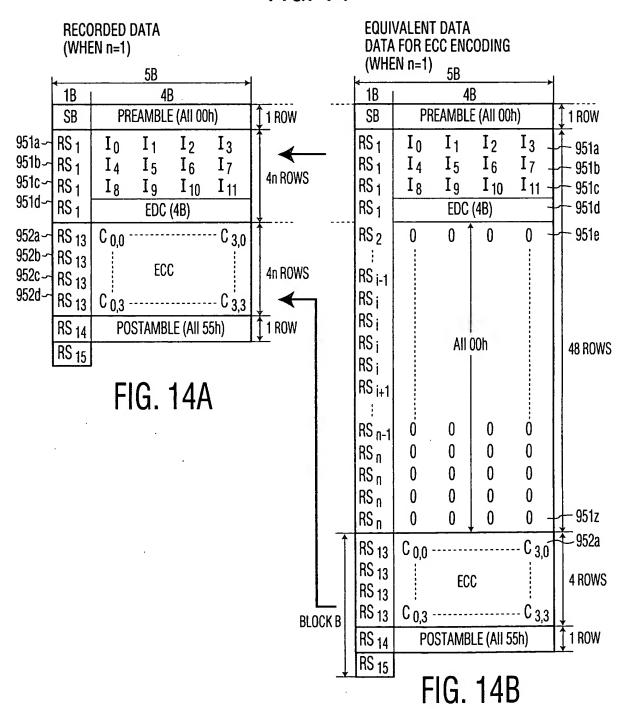


FIG. 14



TYPICAL EQUATION FOR EDC COMPUTATION EDC (ERROR DETECTION CODE) :

EDC_{PCA} (x)=
$$\sum_{i=0}^{31} bi \cdot x^{i}$$

$$I_{PCA} (x) = \sum_{i=32}^{128n-31} bi \cdot x^{i}$$

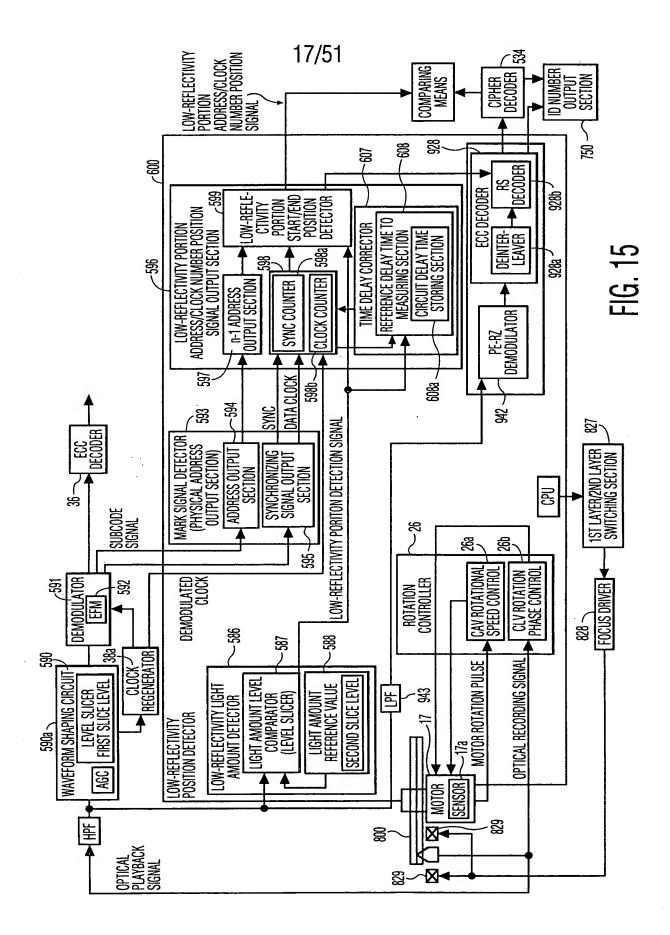
FIG. 14C

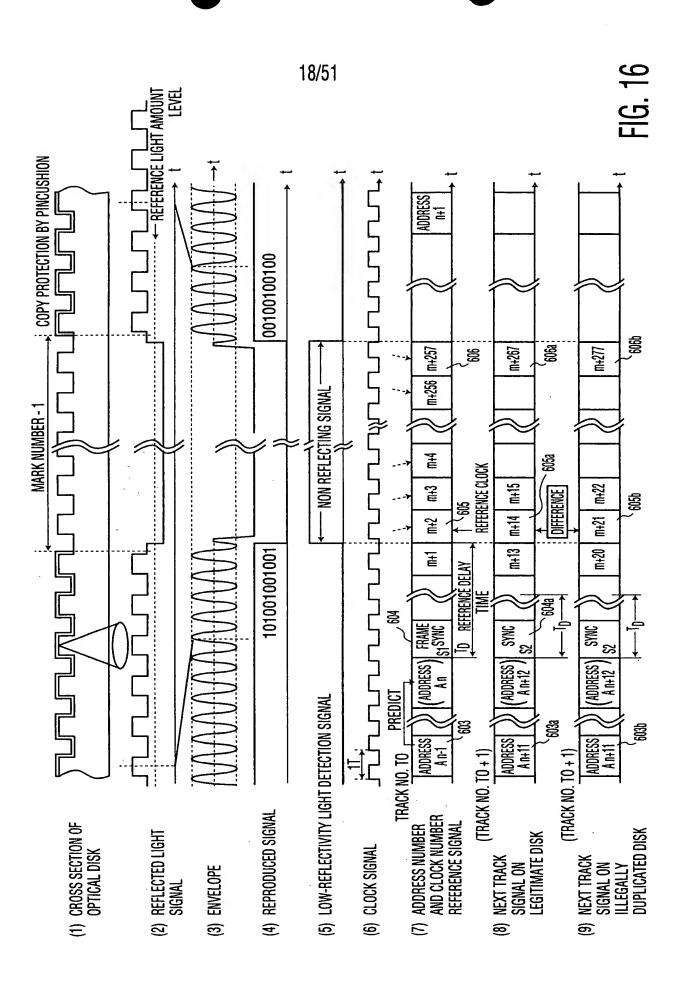
TYPICAL EQUATION FOR EDC COMPUTATION ECC (ERROR CORRECTION CODE) :

$$R_{PCA}(x) = \sum_{i=48}^{51} I_{j+4i} \cdot x^{51-i}$$

$$I_{PCA}(x) = \sum_{i=0}^{4n-2} I_{j+4i} \cdot x^{51-i} + D_{j} \cdot x^{52-4n},$$

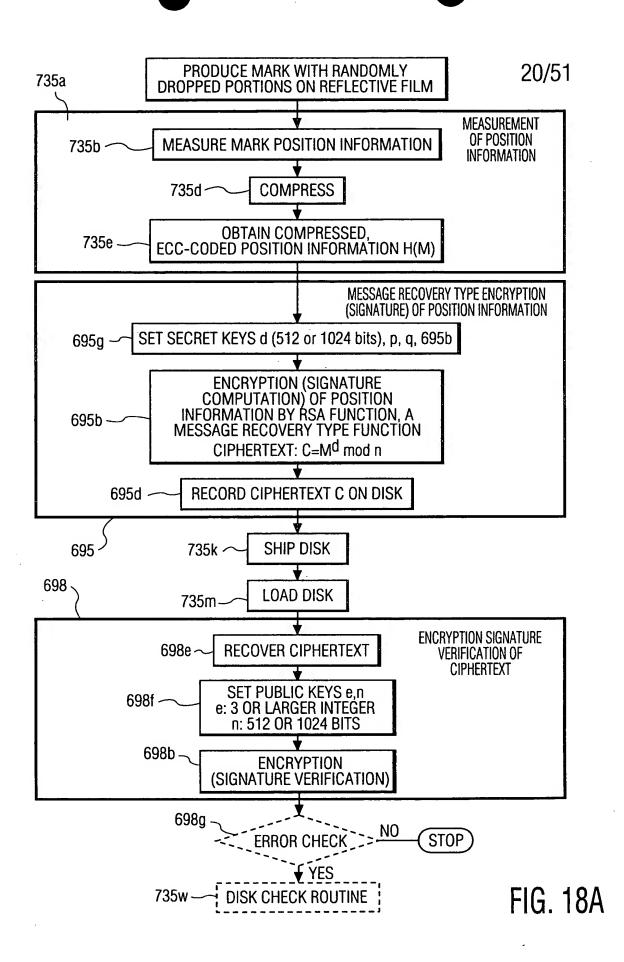
FIG. 14D





						19	9/51				1		
ATED DISK	LOW-REFLECTIVITY PORTION ADDRESS TABLE	END POSITION	CLOCK NUMBER	m+257	m+277	m+230	• 0	m+190	m+281		\		
			SYNC										
			ADDRESS SYNC NO	u	n+12	n+22	••	n+1	n+13	n+25			
ILLEGALLY DUPLICATED DISK		TION	CLOCK NUMBER	m+2	m+21	m+4	0.0	m+36	m+120				
ILLEG/	SELEC.	START POSITION	SYNC NO	S1	25								
	Toll	STA	ADDRESS SYNC NO	n	n+12	n+22	• •	n+1	n+13	n+25		0+9	
		MADV	NO.	1	1	1	••	2	2	2		0	0
		669			PLANNING						//		
			CLOCK NUMBER	m+257	m+267 PLANNIN	m+300	••	m+160	m+250	m+210	1		
	TABLE		SYNC CLOCK NO NUMBER			m+300	••	m+160	m+250	m+210	1		
DISK	ON ADDRESS TABLE	END POSITION — 609	ADDRESS SYNC CLOCK NUMBER			n+23 m+300	••	n+1 m+160	n+13 m+250	n+24 m+210			
LEGITIMATE DISK	IIVITY PORTION ADDRESS TABLE	END POSITION	CLOCK NUMBER	m+257	: m+267		••						
LEGITIMATE DISK	REFLECTIVITY PORTION ADDRESS TABLE	END POSITION	CLOCK NUMBER	n m+257	n+12 m+267	N+23	••	H-1	n+13	n+24			
LEGITIMATE DISK	LOW-REFLECTIVITY PORTION ADDRESS TABLE			m+2 n m+257	m+14 n+12 m+267	N+23	••	H-1	n+13	n+24		A n+9	
LEGITIMATE DISK	LOW-REFLECTIVITY PORTION ADDRESS TABLE	START POSITION END POSITION	CLOCK NUMBER	S1 m+2 n m+257	S2 m+14 n+12 m+267	m+25 n+23	••	m+15 n+1	m+85 n+13	m+68 n+24		0 A n+9	

FIG. 17



21/51

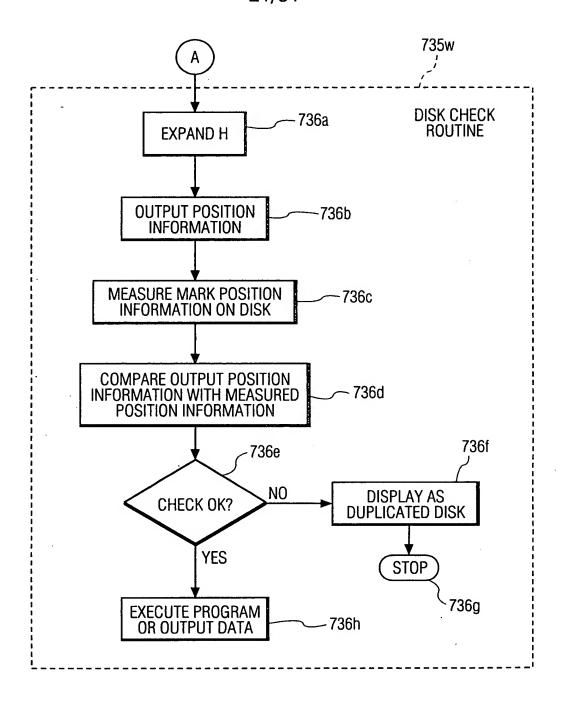
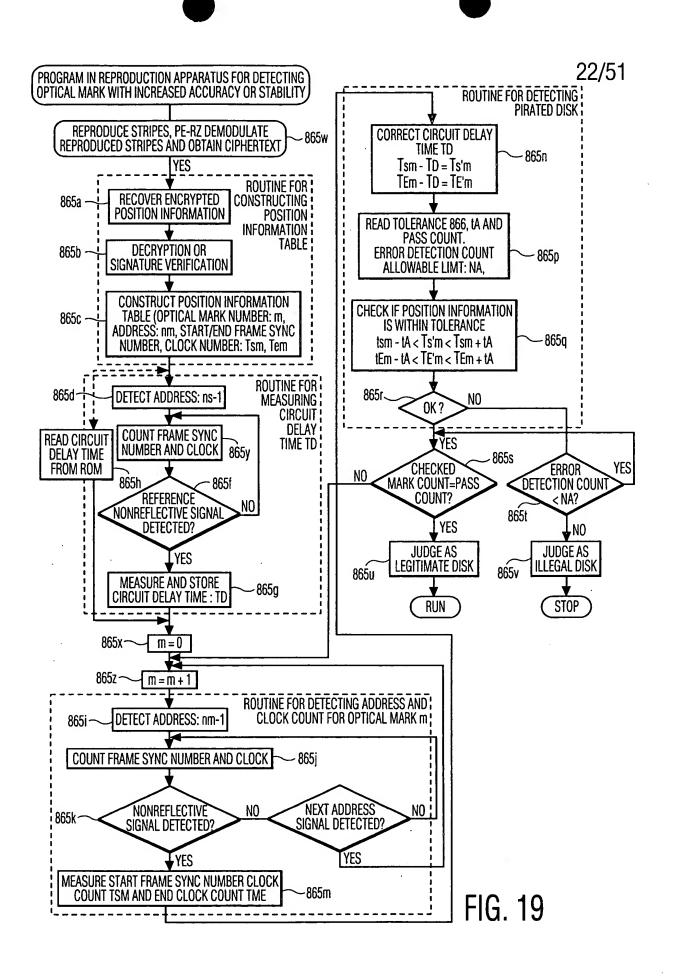
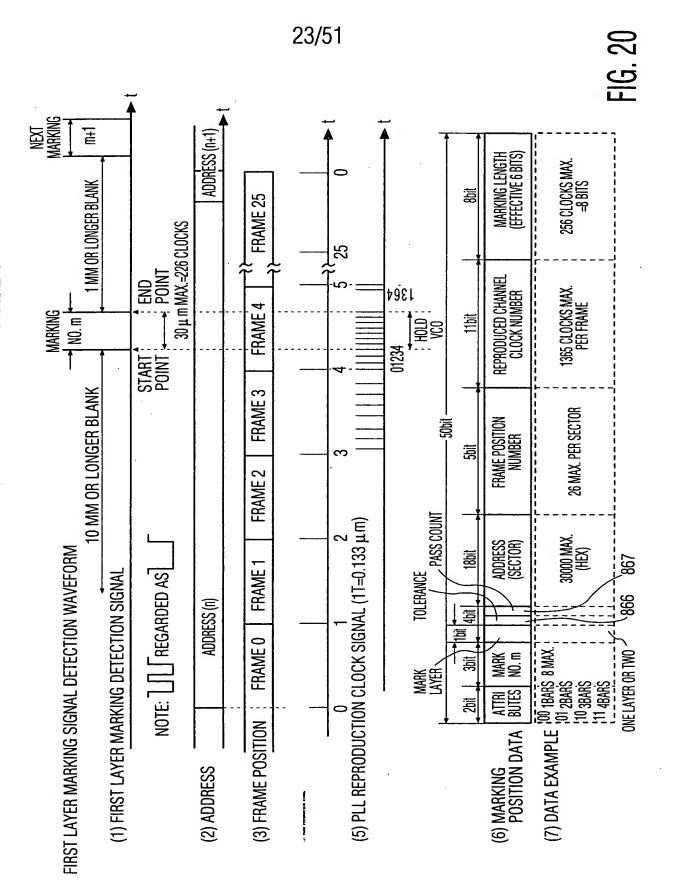
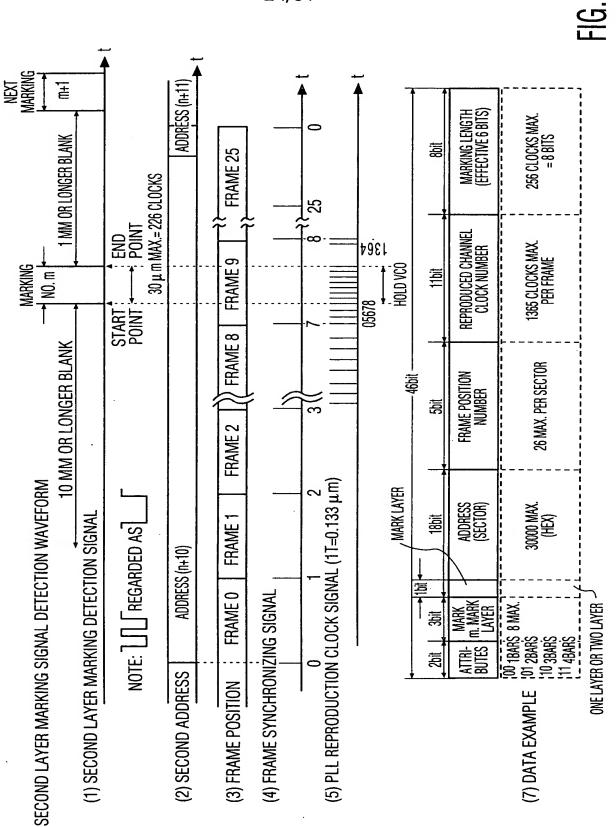


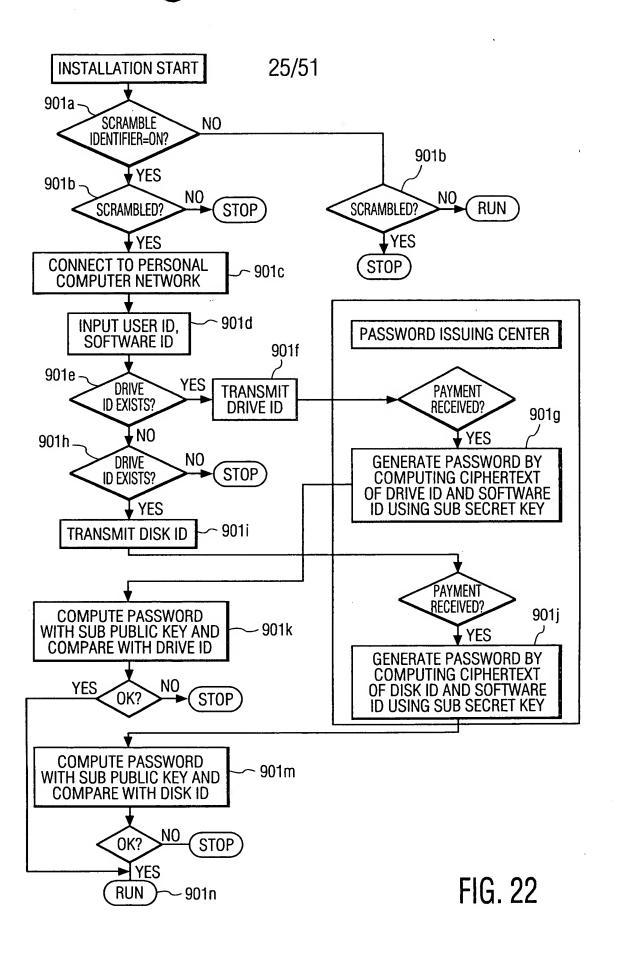
FIG. 18B



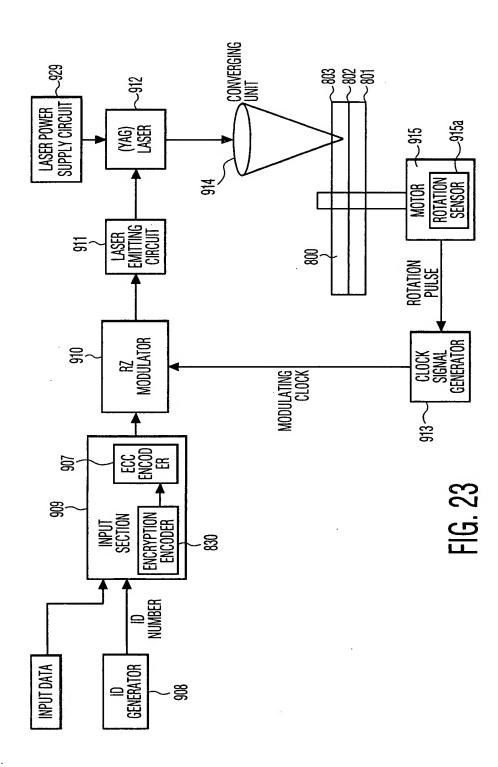


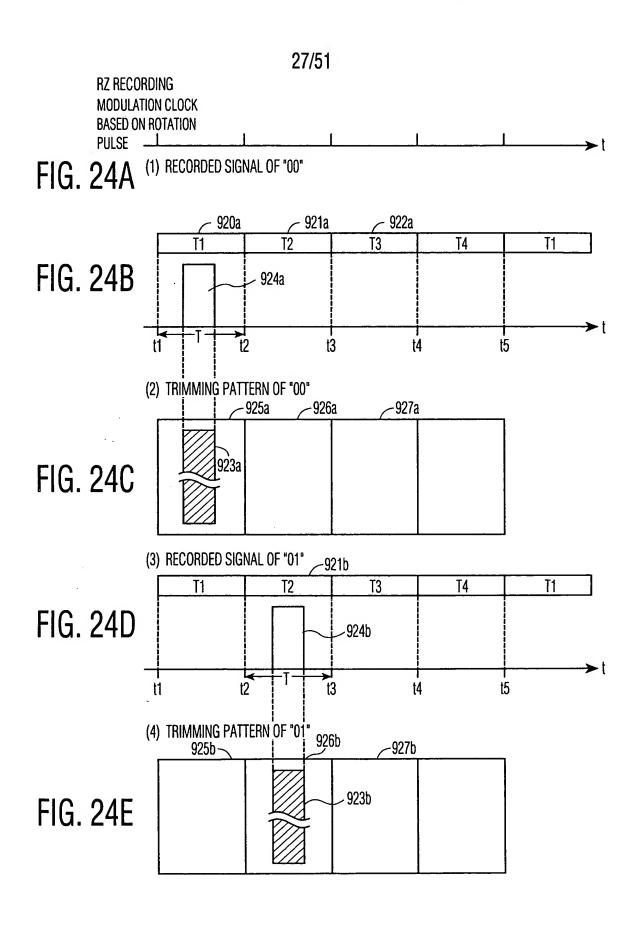


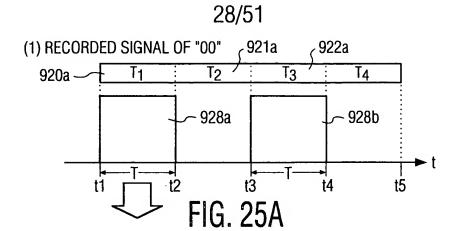


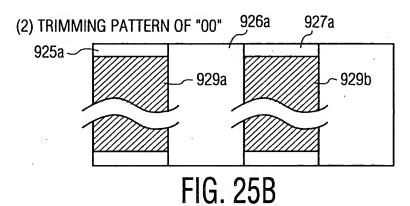


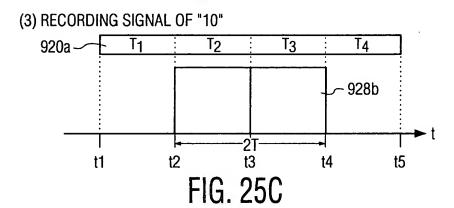
26/51

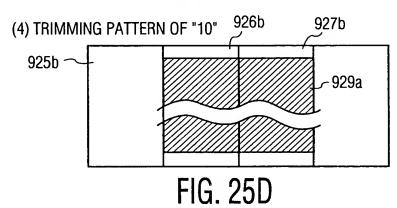


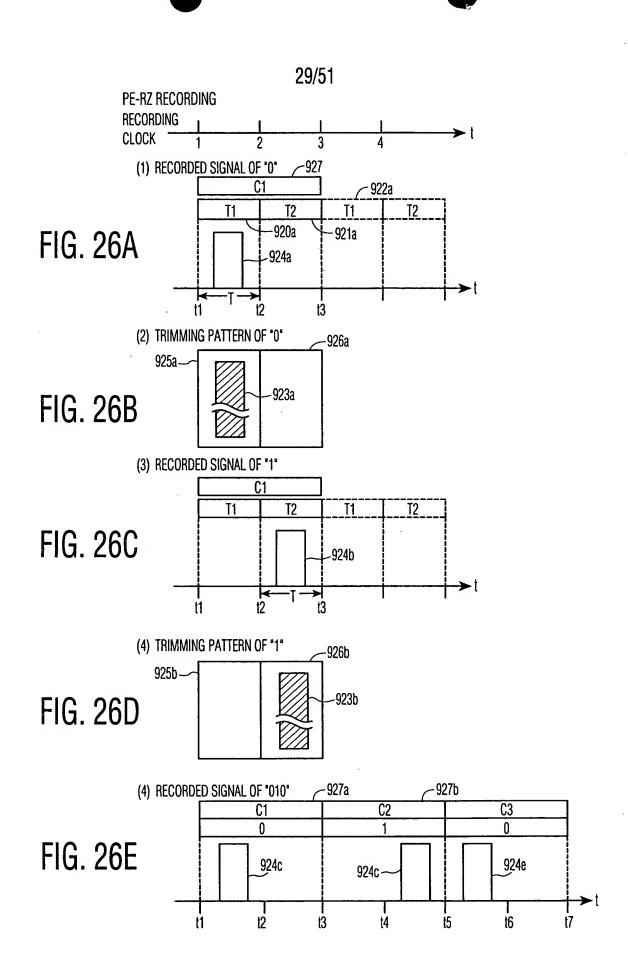


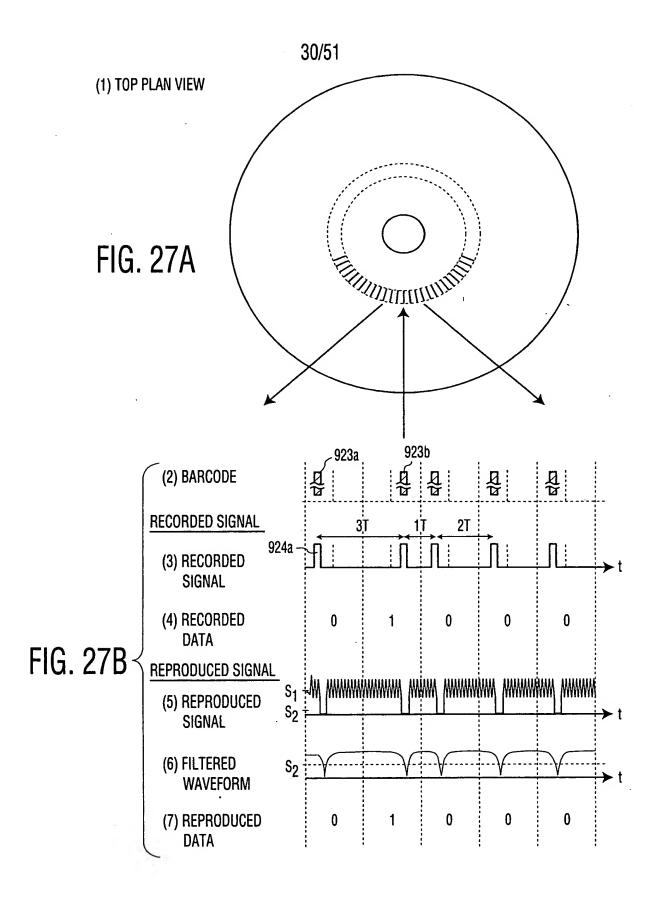


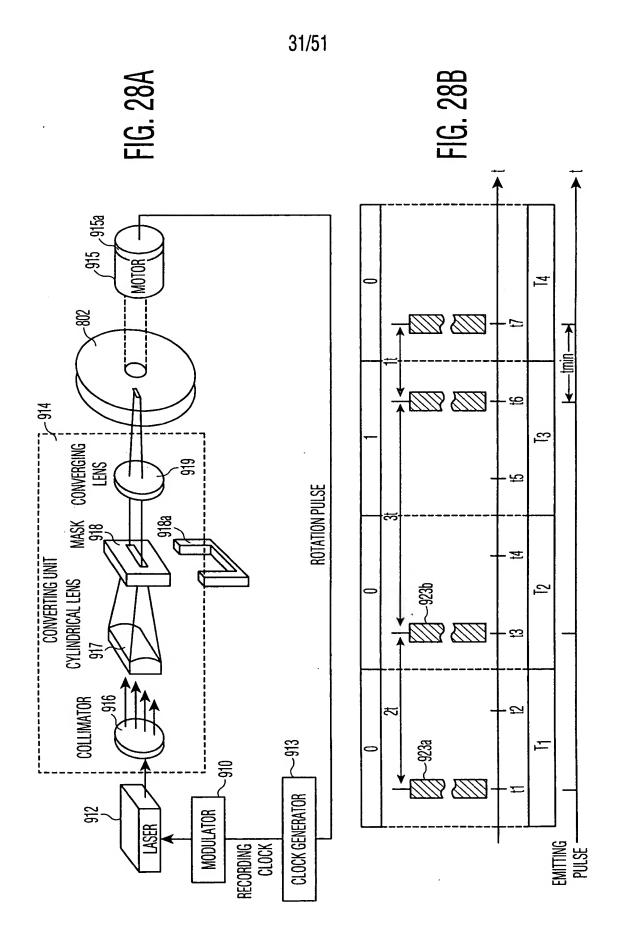


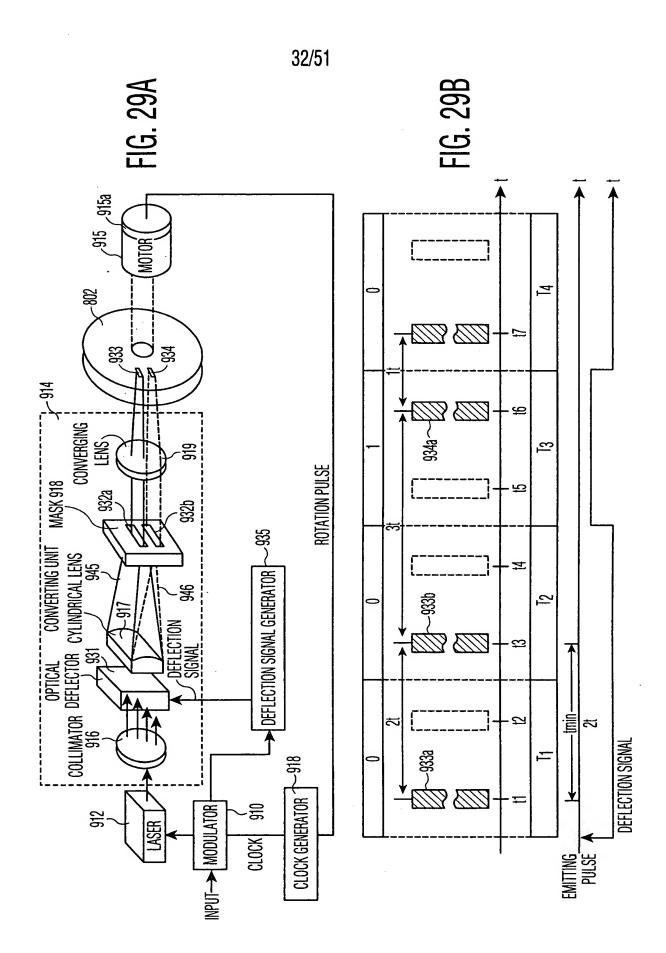


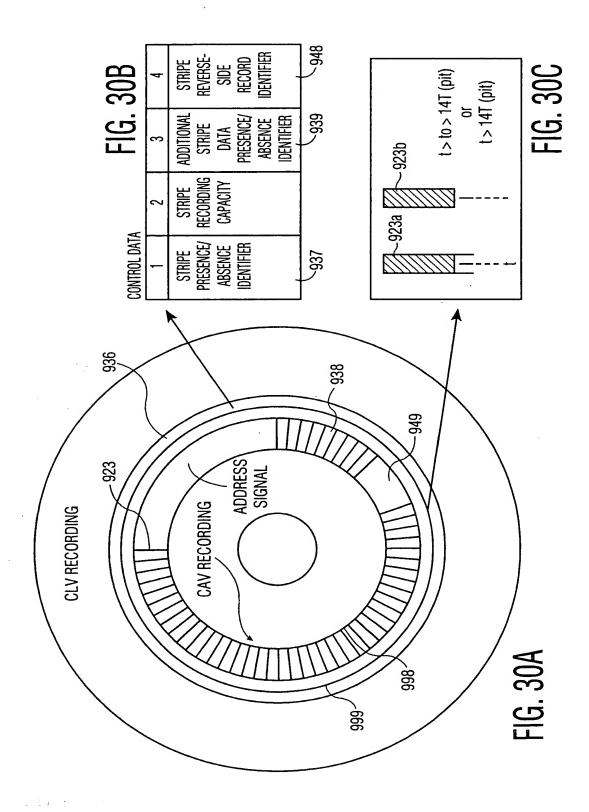












IDIESTICATION

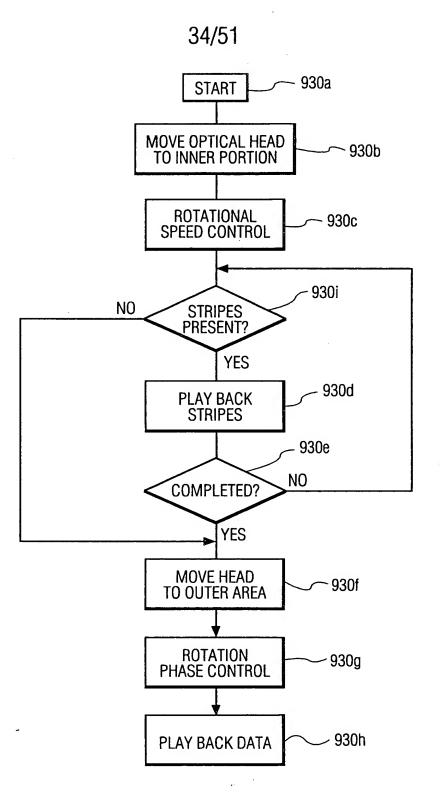
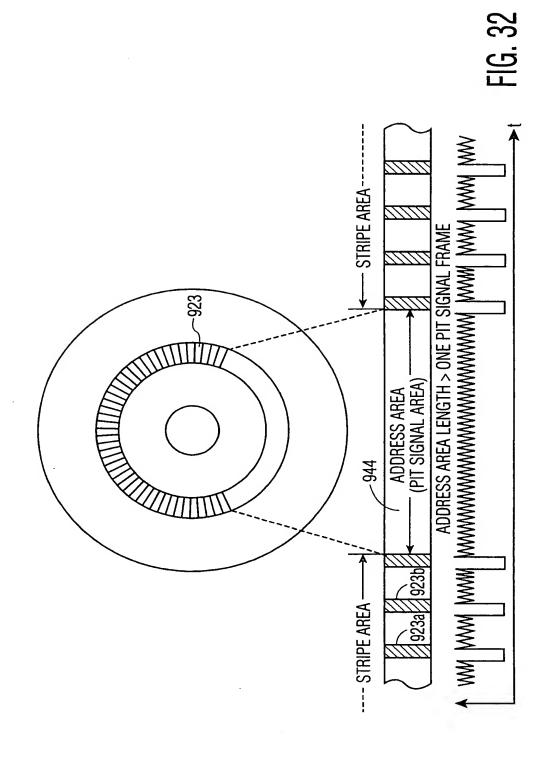
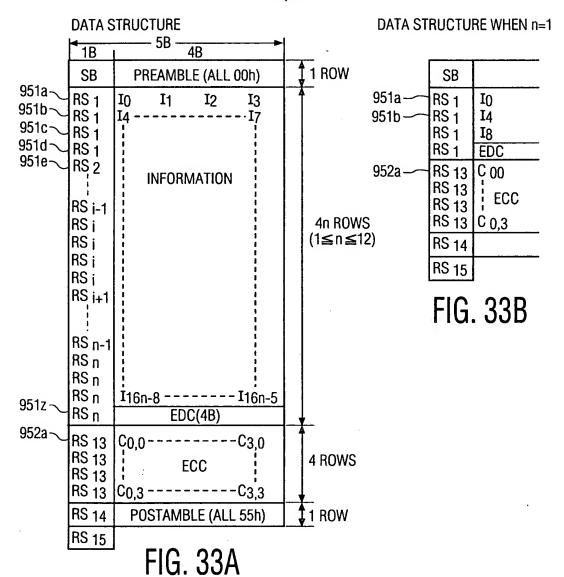


FIG. 31



36/51



RANDOM ERROR CORRECTION CAPABILITY

BIT ERROR RATE BEFORE CORRECTION	READ ERROR RATE AFTER CORRECTION				
10 -5	1 IN 10 ¹⁰ DISKS				
10 -4	1 IN 10 ⁷ DISKS				
10 -3	1 IN 10 ⁴ DISKS				
BURST ERROR CORRECTION CAPABILITY					

FIG. 33C

37/51

SYNCHRONIZATION CODE DATA

SYNCHRONIZATION CODE

							011101	HOIN	LATION COD	<u> </u>			
	BIT PATTERN												
SYNC	FIXED PATTERN								SYNC CODE				٦
BYTE /resync	(CHANNEL BIT)							(DATA BIT)				٦	
/NESTNU	C ₁₅	C ₁₄	C ₁₃	C ₁₂	C ₁₁	C ₁	ე Сე	c_8	b3	$\dot{b_2}$	b ₁	b_0	
SB	0	1	0	0	0	1	1	0	0	0	0	0	
RS ₁	0	1	;0	0	0	1	1	0	0	0	0	1	
RS ₂	0	1	0	0	0	1	-1	0	0	0	1	0	
			!		<u> </u>		 						
<u>.</u>	<u> </u>		<u>i </u>		<u>:</u>								_
RSi	0	1	0	0	0	1	1	0			i		
:	İ		!		:		:						
:			į		; • ! :						•		
RS ₁₅	0	1	0	0	0	1	1	0	1	1	1	1	٦
	!		i		i I			Ψ,		FIG. S	311		_
	;		į		į		İ			IG.	34A		
FIXED SYNCHRONIZATION PATTERN													
	TRIMMING COUNT IDENTIFIER							er					
	0	1	0	0	0	1	1	0	← RECOF	RDING BY F	IRST TRIN	IMING)
	* - -	•		A i	1	·	(0	1)	← RECOF	RDING BY S	SECOND T	RIMMING	94
	<u>i</u>	4	1	4t	1	4	1,"	٠,			•		
									→ FIG. 34B				
	T ₁ T ₂ T ₃					т.							
		1		T2	<u> </u>	3	Tz	1					

MAXIMUM CAPACITY

•										
		RECORDING CAPACITY	TOTAL BYTE COUNT	EFFICIENCY	RECORDING AREA ANGLE	UNRECORDED AREA ANGLE				
	MINIMUM	12B	41B	29.3%	51 DEGREES	309 DEGREES				
	MAXIMUM	188B	2718	69.4%	336 DEGREES	24 Degrees				

FIG. 34C

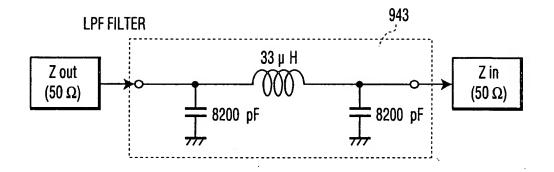


FIG. 35A

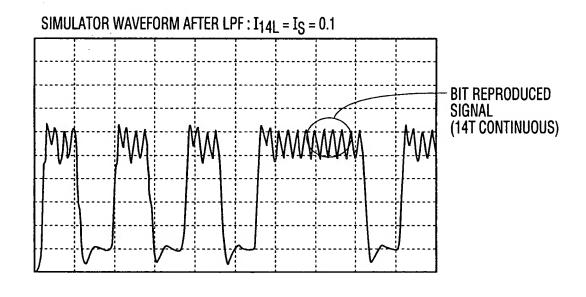
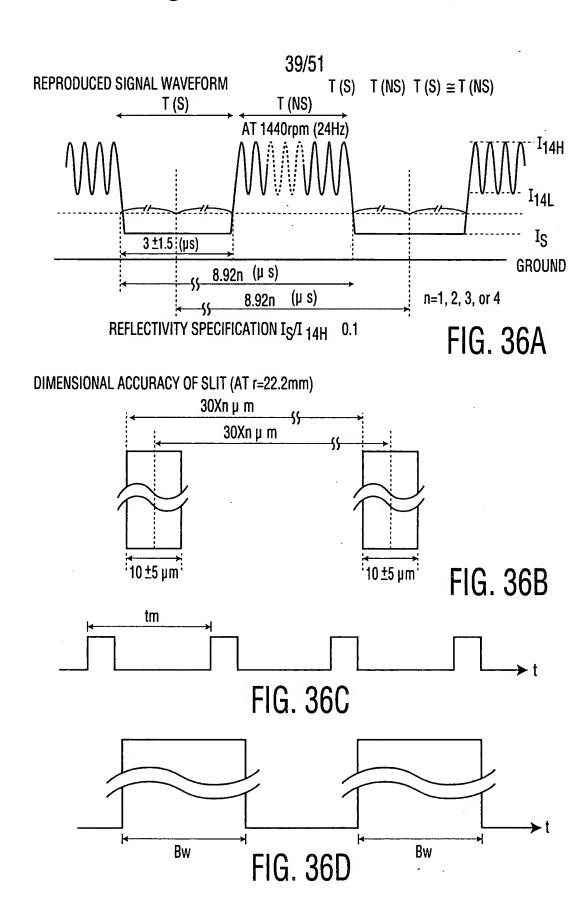
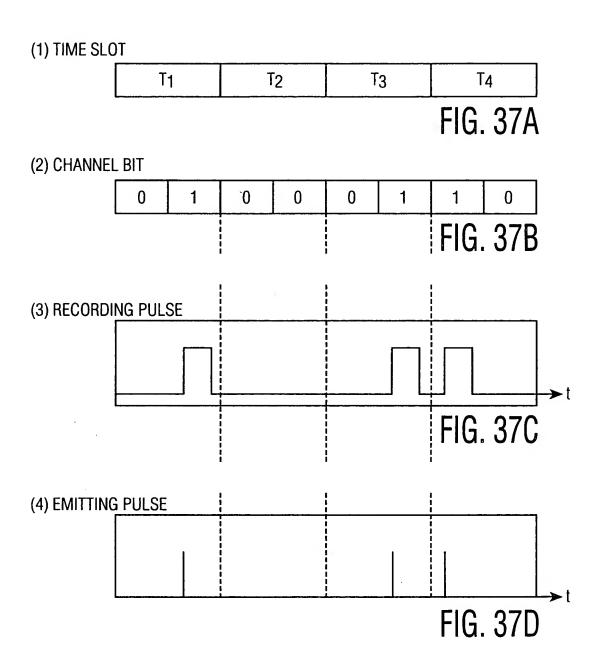
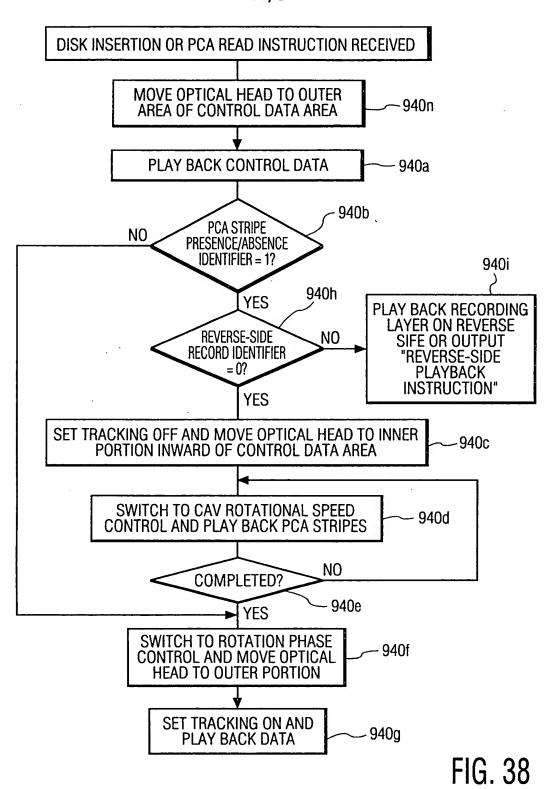


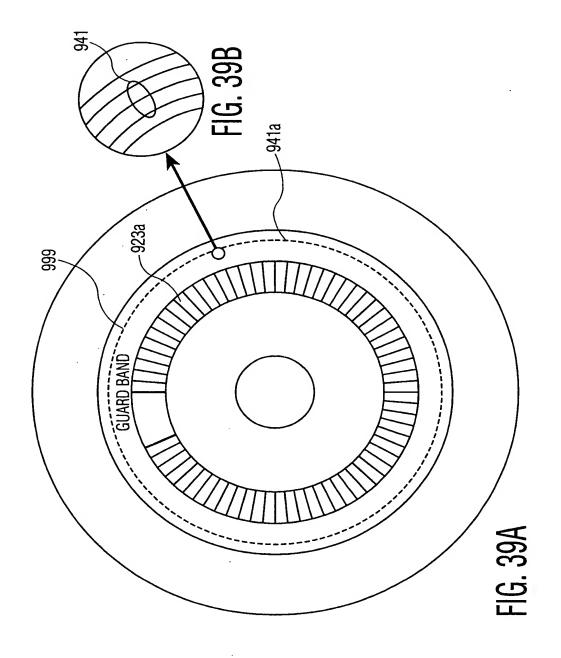
FIG. 35B

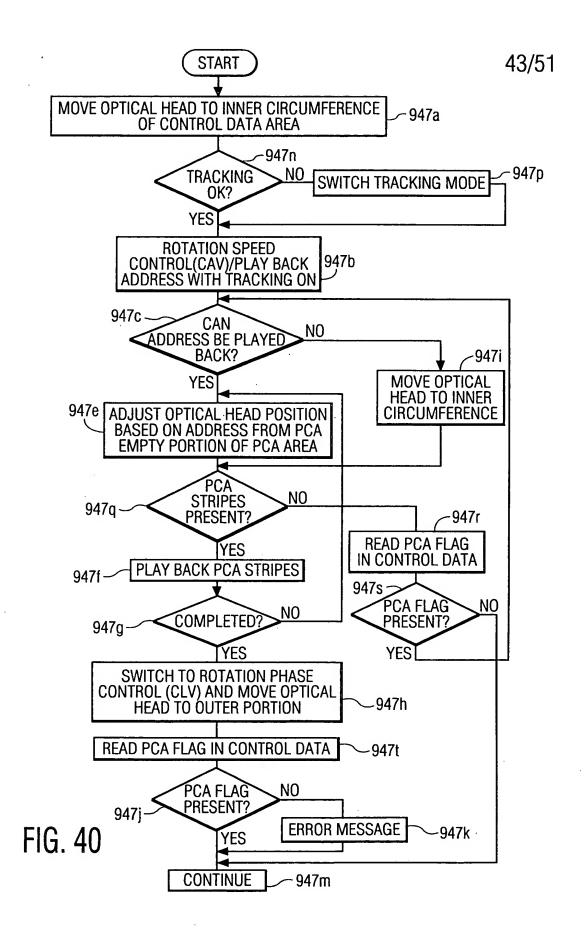


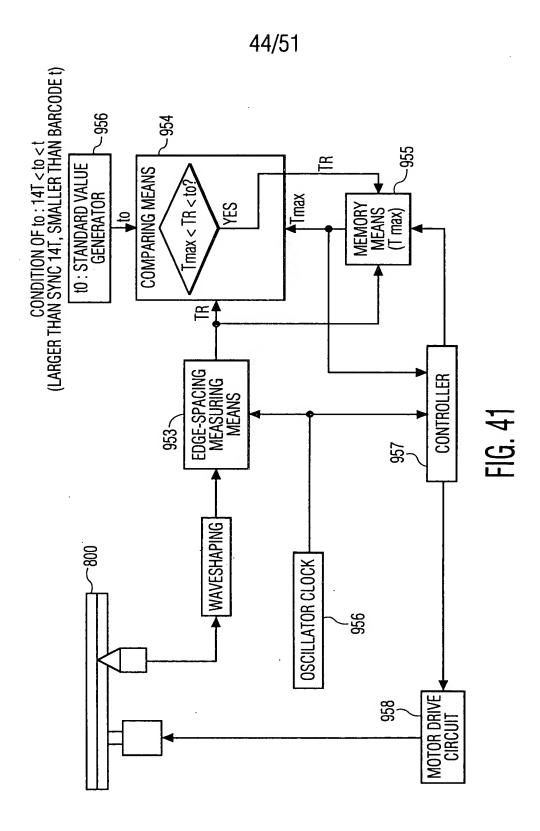


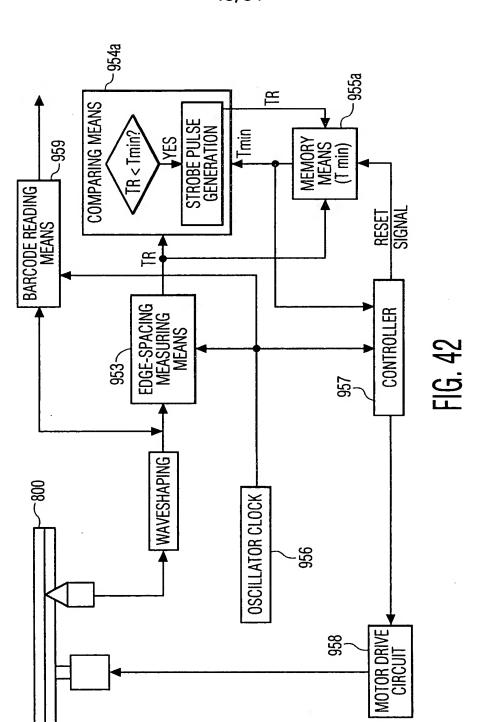
41/51











45/51

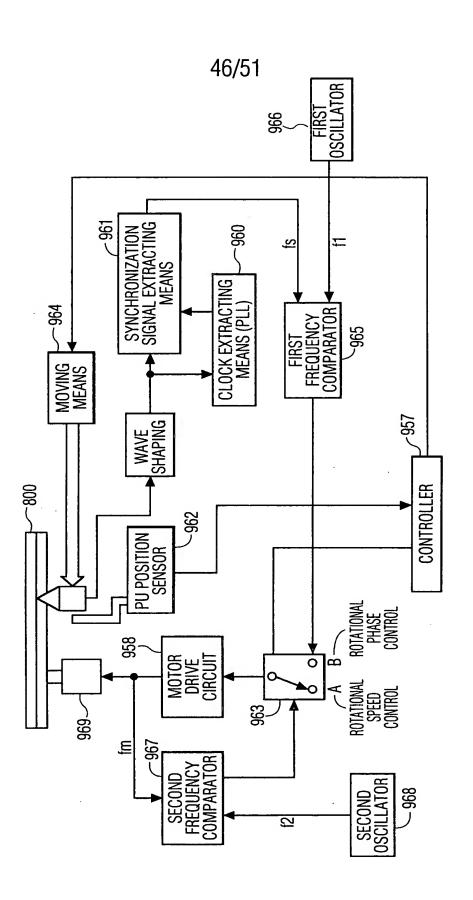


FIG. 43

47/51

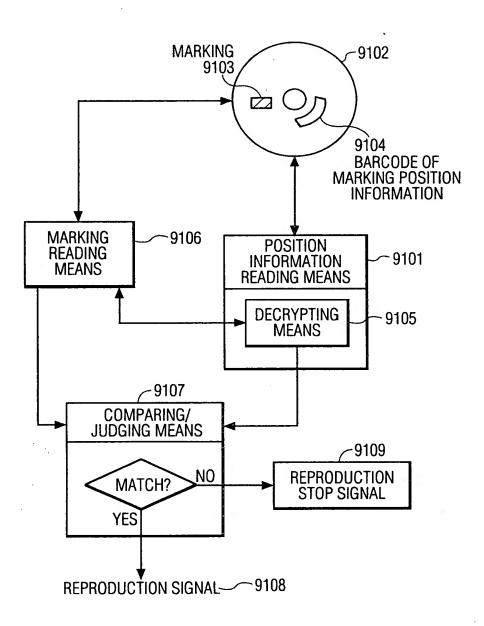
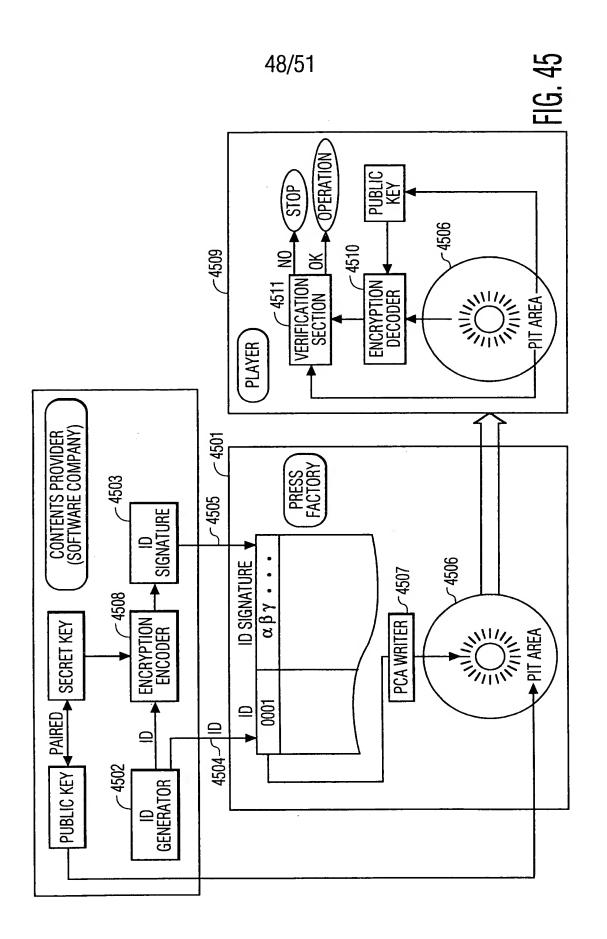
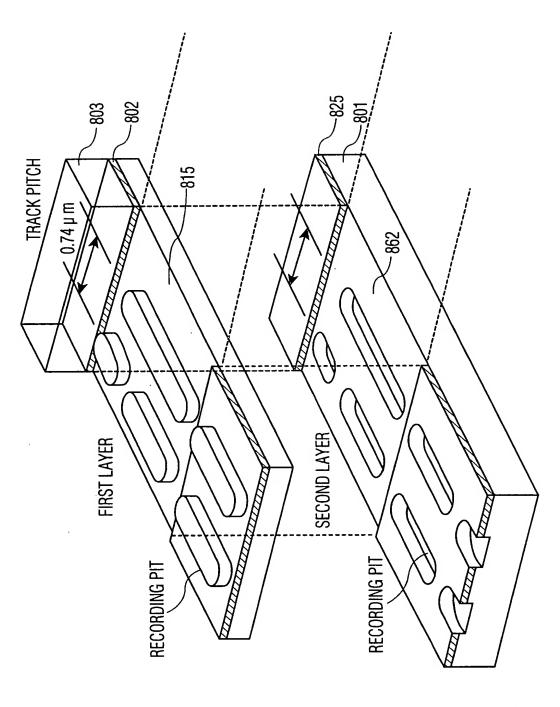


FIG. 44



50/51



-16.47

